

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE 2004/000629

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H01Q 1/24, H01Q 5/00, H01Q 23/00  
According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN Vol. 2000, No. 01, 31 January 2000 (2000-01-31) abstract & JP 11 298231 A (MATSUSHITA ELECTRIC IND CO LTD) 29 October 1999 (1999-10-29) figures 1-2 --	1-5,7-16
Y	PATENT ABSTRACTS OF JAPAN Vol. 2000, No. 11, 03 January 2001 (2001-01-03) abstract & JP 2000 236209 A (NIPPON TELEGR & amp; TELEPH CORP & It; NTT & gt) 29 August 2000 (2000-08-29) figure 1 --	1-5,7-16

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance  
 "B" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

9 June 2004

Date of mailing of the international search report

13-07-2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Marianne Dickman /OGU  
Telephone No. +46 8 782 25 00

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 0120718 A1 (AVANTEGO AB ET AL), 22 March 2001 (22.03.2001), page 9, line 6 - line 18; page 7, line 14, figures 4-5 --	1-16
A	PATENT ABSTRACTS OF JAPAN Vol. 1998, No. 12, 31 October 1998 (1998-10-31) abstract & JP 10 190344 A (MATSUSHITA ELECTRIC WORKS LTD) 21 July 1998 (1998-07-21) figures 1-12 --	1-16
A	PATENT ABSTRACTS OF JAPAN Vol. 012, No. 054 (E583) 18 February 1988 (1988-02-18) abstract & JP 62 200802 A (TOSHIBA CORP) 04 September 1987 (1987-09-04) figure 1 --	1-16
A	US 4382238 A (MAKIMOTO, M. ET AL), 3 May 1983 (03.05.1983), figure 1, abstract --	6

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Information on patent family members

International application No.

30/04/2004

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				EP	1228551 A	07/08/2002
US	4382238	A	03/05/1983	JP	1387946 C	14/07/1987
				JP	56073605 U	16/06/1981
				JP	56079502 A	30/06/1981
				JP	61050523 B	05/11/1986